

### **REMARKS**

Claims 21-25, 27, 30-35, and 50-56 are pending in the above-captioned patent application after this amendment. Claims 50-56 have been allowed, claim 30 has been objected to, claims 20-29, 31-35, and 68-71 have been rejected, and claims 36-39, 41-49 and 57-67 have been withdrawn by the Examiner. The Applicant respectfully disagrees with the rejection of claims 20-29, 31-35, and 68-71 and the withdrawal of claims 36-39, 41-49 and 57-67. However, the Applicant has amended claims 21-25, 27, and 30-33, and canceled claims 20, 26, 28, 29, and 68-71 without prejudice with this amendment for the purpose of expediting the patent application process in a manner consistent with the goals of the Patent Office (65 Fed. Reg. 54603) and/or to clarify what the Applicant regards as the present invention.

Support for the amendments to claims 21-25, 27, and 30-33 can be found throughout the originally filed specification. In particular, claim 30 has been amended to be in independent form. Claims 21-25, 27, and 31-33 have been amended to depend from claim 30 and/or to correspond to the amendments to claim 30.

No new matter is believed to have been added by this amendment. Reconsideration of the pending application is respectfully requested in view of the above-recited amendment and the arguments set forth below. The Applicants respectfully request that this Amendment and Response be considered after final rejection because the Applicants believe that the Application is in proper form for allowance.

### **Drawings**

The Patent Office objected to the drawings because the feature of "both the first passageway and second passageway" encircling "at least a portion of the conductor component" as recited in claim 69 must be shown or the feature canceled from the claim(s). The Applicant respectfully traverses this rejection. In particular, Figure 4B clearly illustrates "both the first passageway and second passageway" encircling "at least a portion of the conductor component". In particular, in Figure 4B, "a liner 445 encircles the conductor arrays 478. In Figure 4B, the circulation housing 479 encircles the liner 445 and coil assembly 476. In this embodiment, the circulation housing 479 cooperates with the liner 445 to define the first passageway 464. Further, the second passageway 466

is defined by the opening in the coil assembly 476 and the space between the coil assembly 476 and the liner 445.” See the specification at page 21, line 31-page 22, line 2. Accordingly, the objection to the drawing is incorrect and should be withdrawn. Moreover, the Applicant has cancelled claim 69 without prejudice by this amendment. Accordingly, the objection is moot.

#### **Rejections Under 35 U.S.C. § 112**

Claim 69 was rejected under 35 U.S.C. § 112 because the claim contains subject matter which is not described in the specification. The Patent Office provides that it is not clear how “both the first passageway and the second passageway encircle at least a portion of the conductor component”. The Applicant respectfully traverses this rejection. In particular, Figure 4B clearly illustrates “both the first passageway and second passageway” encircling “at least a portion of the conductor component”. In particular, in Figure 4B, “a liner 445 encircles the conductor arrays 478. In Figure 4B, the circulation housing 479 encircles the liner 445 and coil assembly 476. In this embodiment, the circulation housing 479 cooperates with the liner 445 to define the first passageway 464. Further, the second passageway 466 is defined by the opening in the coil assembly 476 and the space between the coil assembly 476 and the liner 445.” See the specification at page 21, line 31-page 22, line 2. Accordingly, this rejection is incorrect and should be withdrawn. Moreover, the Applicant has cancelled claim 69 without prejudice by this amendment. Accordingly, the rejection is moot.

#### **Allowable Subject Matter**

Claims 50-56 have been allowed. Claim 30 were found to contain patentable subject matter, but was objected to as being dependent upon a rejected base claim.

As stated above, claim 30 has been amended to be in independent form. Accordingly, claim 30 is considered to be patentable. Because claims 21-25, 27, and 31-35 depend directly on claim 30, they are also considered to be patentable.

### **Rejections Under 35 U.S.C. § 102**

Claims 20 and 21 have been rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 3,318,253 issued to Campolong ("Campolong"). Claims 68 and 71 have been rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,698,070 issued to Hirano et al. ("Hirano et al."). Claims 20, 68 and 71 have been canceled without prejudice with this amendment. Accordingly, the rejection of claims 20, 68 and 71 is believed to be moot. Further, claim 21 has been amended to depend upon allowable claim 30. Accordingly, this rejection is not supported by the art.

### **Rejections Under 35 U.S.C. § 103(a)**

Claims 22, 23, 26-29, and 31 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Campolong in view of U.S. Patent No. 3,906,261, issued to Ogura et al. ("Ogura et al."). Claims 24 and 25 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Campolong. Claims 32-35 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Campolong in view of Ogura et al., and further in view of U.S. Patent No. 5,777,403, issued to Yuan ("Yuan"). Claim 69 has been rejected under 35 U.S.C. § 103(a) as being unpatentable over Hirano et al. in view of U.S. Patent No. 5,705,029 issued to Okudaira et al. ("Okudaira et al."). Claim 70 has been rejected under 35 U.S.C. § 103(a) as being unpatentable over Hirano et al. in view of U.S. Patent No. 4,565,601 issued to Kakechi et al. ("Kakechi et al.").

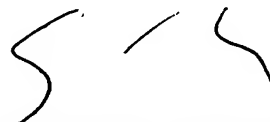
Claims 26, 28, 29, 69, and 70 have been canceled without prejudice with this amendment. Accordingly, the rejection of claims 26, 28, 29, 69, and 70 is believed to be moot. Further, claims 22-25, 27, 31-35 has been amended to depend upon allowable claim 30. Accordingly, the rejection of these claims is not supported by the art.

### Conclusion

In conclusion, the Applicant respectfully asserts that claims 21-25, 27, 30-35, and 50-56 are patentable for the reasons set forth above, and that the application is now in a condition for allowance. Accordingly, an early notice of allowance is respectfully requested. The Examiner is requested to call the undersigned at 858-456-1951 for any reason that would advance the instant application to issue.

Dated this the 3<sup>rd</sup> day of June, 2005.

Respectfully submitted,



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